

January 9-15, 2004

<P>The Terra spacecraft is operating nominally. All five instruments are in science mode, and the MODIS Direct Broadcast (DB) data stream has been restored.</P>

<P>Upon approval by NASA Headquarters Code Y, and the EOS Program Office at GSFC, the Terra Science Formatting Equipment Side-A (SFE-A) was successfully recycled during the TDRSS contact that started at 1342 UTC on Thursday, January 15, 2004. The out-of-limits telemetry points on the SFE-A Direct Access System channel that first alerted the Terra Flight Operations Team to potential problems with the Direct Broadcast data cleared immediately as expected with the recycle operation, and MODIS Direct Broadcast was expected to immediately return to normal. Good Direct Broadcast data were obtained during a 5-minute pass over GSFC shortly after 1400 UTC on January 15, and this was confirmed by many additional DB data users throughout the day. This confirms the analysis that the problem (resulting from an SEU) was confined to the Direct Access System Channel First In-First Out (FIFO) buffer within SFE-A.</P>

<P>A meeting with White Sands and Space Network personnel to resolve the issue of the multiple short duration TDRS-5 KSA dropouts on Terra was conducted on January 16, 2004. This problem is beginning to impact the science users and was elevated this week. The Communications Branch will lead this anomaly effort.</P>

<P><B>Plans:</B><BR>

A routine roll maneuver for support of MODIS lunar calibration will be evaluated for February 10, 2004.</P>